

## PROGRAM

### MOLECULAR GENETIC BASIS OF CELL AND TISSUE STRUCTURE AND FUNCTION

Conference Chairperson: Gary Stein  
Department of Cell Biology,  
University of Massachusetts Medical  
School, Worcester, MA

Co-Vice-Chairpersons: Alice Fulton  
Department of Biochemistry  
University of Iowa Medical School  
Iowa City, IA

Ronald Berezney  
Department of Biology  
State University of New York  
Buffalo, NY

#### SESSION I: Cellular and Molecular Basis of Organogenesis and Tissue Remodeling

Chairperson: Sheldon Penman (Massachusetts Institute of Technology, Cambridge, MA)

##### Invited speakers/participants:

Sheldon Penman (Massachusetts Institute of Technology, Cambridge, MA)

Hari Reddi (Johns Hopkins University, Baltimore, MD)

Eugene Bell (Massachusetts Institute of Technology, Cambridge, MA)

Helen M. Blau (Stanford University School of Medicine)

#### SESSION II: Involvement of Nuclear Architecture in Transcriptional and Post-Transcriptional Control of Gene Expression

Chairperson: Jeanne Lawrence (University of Massachusetts Medical Center, Worcester, MA)

##### Invited speakers/participants:

William Brinkley (Baylor College of Medicine)

David Spector (Cold Spring Harbor)

Jeanne Lawrence (University of Massachusetts Medical School, Worcester, MA)

Roel van Driel (University of Amsterdam, Amsterdam, The Netherlands)

Andre van Wijnen (University of Massachusetts Medical School, Worcester, MA)

Jeffrey Nickerson (Massachusetts Institute of Technology, Cambridge, MA)

**SESSION III:     Role of Chromatin Structure and Nucleosome  
                         Organization in Transcriptional Control**

**Chairperson:**     Gordon Hager (NIH, Bethesda, MD)

**Invited speakers/participants:**

Gordon Hager (NIH, Bethesda, MD)  
Morton Bradbury (University of California)  
Martin Montecino (University of Massachusetts Medical School,  
                         Worcester, MA)  
James R. Davie (University of Manitoba, Winnipeg, Canada)  
Bill William Garrard (Southwestern Medical Center, Dallas, TX)  
Steven Ward (Johnson Medical School, Brunswick, NJ)  
Harald Sauereissig (Institute for Biologie, Albert-Ludwigs  
Universitat, Freiburg, Germany)  
Steven Spiker (North Carolina State University, Raleigh, NC)

**SESSION IV:       Involvement of the Nuclear Matrix in DNA  
                         Replication**

**Chairperson:**     Ronald Berezney (State University of New York at  
                         Buffalo, Buffalo, NY)

**Invited speakers/participants:**

Joyce Hamlin (University of Virginia, Charlottesville, VA)  
Prem Reddy (University of Massachusetts Medical School,  
                         Worcester, MA)  
Ronald Berezney (State University of New York at Buffalo,  
                         Buffalo, NY)  
David Kaufman (University of North Carolina Medical School,  
                         Chapel Hill, NC)  
Dean Jackson (University of Oxford, Oxford, England)  
T. Kohwi-Shigematsu (La Jolla Cancer Research Foundation, La  
                         Jolla, CA)

**SESSION V:     -- Contributions of the Cytoskeleton to Control of --  
                         Gene Expression**

**Co-Chairperson:**   Alice Fulton (University of Iowa College of  
                         Medicine, Iowa City, IA),  
                         Robert Singer (University of Massachusetts  
                         Medical Center, Worcester, MA)

**Invited speakers/participants:**

Robert Goldman (Northwestern University Medical School, Chicago,  
                         IL)  
Donald Cleveland (Johns Hopkins University School of Medicine,  
                         Baltimore, MD)  
Elizabeth Luna (Worcester Foundation, Shrewsbury, MA)  
Alice Fulton (University of Iowa College of Medicine, Iowa City,  
                         IA)  
Robert Singer (Univ. of Mass. Medical Center, Worcester, MA)

**SESSION VI:      The Regulation & Regulatory Roles of the  
Extracellular Matrix**

**Chairperson:**    Mina Bissell (Lawrence Berkeley Laboratories,  
Berkeley, CA)

**Invited speakers/participants:**

Larry Suva (Beth Israel Hospital, Boston, MA)  
Merton Bernfield (Harvard Medical School, Boston, MA)  
Helene Sage (University of Washington, Seattle, WA)  
Paul Bornstein (University of Washington, Seattle, WA)  
Stephen Farmer (Boston University, Boston, MA)  
Jane Lian (University of Massachusetts Medical Center, Worcester,  
MA)  
Mina Bissell (Lawrence Berkeley Laboratories, Berkeley, CA)

**SESSION VII:      Proliferation-Differentiation Interrelationships:  
Regulation of Gene Expression Supporting Cell  
Growth and Tissue-Specific Gene Expression**

**Chairpersons:** Gary Stein (University of Massachusetts Medical  
School, Worcester, MA)

**Invited speakers/participants:**

Thomas Spelsberg (Mayo Graduate School of Medicine, Rochester,  
MN)  
David Denhardt (Rutgers University, Piscataway, NJ)  
James Rheinwald (Biosurface Technologies, Cambridge, MA)  
Gary Stein (University of Massachusetts Medical School,  
Worcester, MA)  
Kenneth Korach (National Institute for Environmental Health,  
Research Triangle Park, NC)  
Jurgen Bode (Gesellschaft fur Biotechnologische Forschung,  
Braunschweig-Stockheim)

**SESSION VIII:    Mechano-Chemical Signalling Mechanisms Supporting  
Cell and Tissue-Specific Gene Expression**

**Chairperson:**    Donald Ingber (Harvard Medical School, Boston, MA)

**Invited speakers/participants:**

Donald Ingber (Harvard Medical School, Boston, MA)  
Michael Sinensky (Eleanor Roosevelt Institute for Cancer  
Research, Denver, CO)  
Clint Rubin (State University of New York, Stony Brook, NY)  
Keith Hruska (Washington University, St. Louis, MO)  
William B. Kinlaw (Dartmouth Medical School, Hanover, NH)  
Joseph Bidwell (Indiana University School of Dentistry,  
Indianapolis, IN)

**SESSION IX:      Modifications in Cell Structure as a Basis for  
Diagnosis, Prognosis and Therapeutics**

Chairperson: Donald S. Coffey (Johns Hopkins University School  
of Medicine, Baltimore, MD)

Invited speakers/participants:

Avri Ben-Ze'ev (Weizmann Institute of Science, Rehovot, Israel)

Donald Coffey (Johns Hopkins School of Medicine, Baltimore, MD)

Robert Hoffman (University of California School of Medicine, San Diego, CA)

Robert Getzenberg (Yale School of Medicine, New Haven, CT)

Kenneth Pienta (Wayne State University School of Medicine,  
Detroit, MI)

Edward G. Fey (University of Massachusetts Medical School,  
Worcester, MA)

Daniel Fernandes (Medical University of South Carolina,  
Charleston, SC)

Disch Bronstein (University of Massachusetts Medical Center,  
Worcester, MA)